

ABSTRACT OF THE DISCLOSURE

Recently, in terms of improving the yield and production rate of a biaxial-oriented polypropylene pearly synthetic paper, since the inorganic powder itself has an unsteady dispersion property while blended with polypropylene and while the extruder raises its production rate, which causes a shorter period of replacing the filter screen of the extruder; consequently, frequently replacing the filter screen deteriorates the efficiency of production, further obstructs the goal of increasing the yield from being achieved.

The key technique of the present invention on the achievement of improving the yield and production rate of the pearly synthetic paper is to prefabricate the inorganic powder into a master-batch (M_1B) in the manufacturing process of the pearly synthetic paper; in addition, the inorganic powder is merely blended with polypropylene (primary raw material) to reach the required dispersion in advance; the present invention improves the problem of manufacturing process of conventional pearly synthetic paper of which the extruded sheet from the extruder has pores and air spots structure caused by the moist inorganic powder or the heat-volatilized gas produced from the surface treatment agent which would otherwise affect the product quality, the yield and production rate.

Consequently, while the extruder is being operated under a status of the maximum rotating speed and the maximum extrusion output, the inorganic powder master-batch (M_1B) of the present invention which has in advance fulfilled the dispersion requirement is able to effectively improve, incorporated with a design of air-drawing device and an increased blending effect of a double-screw, the yield and production rate of the biaxial-oriented polypropylene pearly synthetic paper.

In addition, the present invention innovates in using an inorganic master-batch (M_1B) which is prefabricated and has a better dispersion property not only largely to lengthen the using period of the filter screen of the extruder but also to resolve the problem of causing an abnormal production due to stopping the operation of production line for replacing the filter screen; therefore, the manufacturing method disclosed by the present invention is able to directly increase the rotation speed of the extruder and further increase its yield effectively.